

<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>		Attorney Docket No. <span style="float: right;">2323-164</span>	
		First Inventor <span style="float: right;">Mark T. KEATING</span>	
		Title <span style="float: right;">Mutations in and Genomic Structure of HERG - a Long QT Syndrome Gene</span>	

1751b U.S. PTO  
10/696708  
10/30/03

<input checked="" type="checkbox"/> <b>Applicant for Published Patent Application:</b>		University of Utah Research Foundation Salt Lake City, Utah	
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<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Assistant Commissioner of Patents Box Patent Application Washington, D.C. 20231
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1. <input checked="" type="checkbox"/> Fee Transmittal Form <i>(Submit an original, and a duplicate for fee processing)</i> 2. <input checked="" type="checkbox"/> Applicant claims small entity status. 3. <input checked="" type="checkbox"/> Specification <span style="float: right;">Total pages [ 92 ]</span> <i>(preferred arrangement set forth below)</i> - Descriptive title of the invention - Cross references to Related Applications - Statement Regarding Fed sponsored R&D - Reference to sequence listing, a table or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings - Detailed Description - Claims - Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawing(s) (35 USC 113) (Total Sheets) [ 21 ] 5. <input checked="" type="checkbox"/> Oath or Declaration (Total Pages) [ 3 ] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <i>(for continuation/divisional with Box 17 completed)</i> <b>[Note Box 5 below]</b> i. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application. 6. <input checked="" type="checkbox"/> Application Data Sheet. (2 pages)	7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program 8. Nucleotide and/or Amino Acid Sequence Submission a. <input checked="" type="checkbox"/> Computer Readable Form (CRF) b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input checked="" type="checkbox"/> paper (34 pages) c. <input checked="" type="checkbox"/> Statement verifying identity of above copies  <b>ACCOMPANYING APPLICATION PARTS</b> 9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <i>(when there is an assignee)</i> <input type="checkbox"/> Power of Attorney 11. <input type="checkbox"/> English Translation Document <i>(if applicable)</i> 12. <input type="checkbox"/> Information Disclosure Statement /PTO 1449 <input type="checkbox"/> Copies of IDS Citations 13. <input type="checkbox"/> Preliminary Amendment 14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <i>(Should be specifically itemized)</i> 15. <input type="checkbox"/> Certified Copy of Priority Document(s). 16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). 17. <input type="checkbox"/> Other:
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17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below or in an application Data Sheet under 37 CFR 1.76::  
☒ Continuation    ☐ Divisional    ☐ Continuation-in-part (CIP) of prior application No.: 09/735,995  
 Prior application information: Examiner C.I. Qian Group/Art Unit 1636  
 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

<input checked="" type="checkbox"/> Customer Number or Bar Code Label <b>6449</b>					
Address		Rothwell, Figg, Ernst & Manbeck Suite 800, 1425 K Street, N.W.			
City	Washington	State	D.C.	Zip Code	20005
Country	U.S.A.	Telephone	202-783-6040	Fax	202-783-6031
Name		Jeffrey L. Ihnen, Reg. No. 28,957			
Signature			 Date <span style="float: right;">30 October 2003</span>		

<b>FEE TRANSMITTAL for FY 2003 (Small Entity)</b>		Complete if Known	
		Application Number	(to be assigned)
		Filing Date	30 October 2003
		First Named Inventor	Mark T. KEATING
		Examiner Name	
		Group Art Unit	
Total Amount of Payment	(\$ 385.00)	Attorney Docket Number	2323-164

**METHOD OF PAYMENT (check one)**

1. ☒ The Commissioner is hereby authorized to charge additional fees and credit any overpayment to Deposit Account Number 02-2135 in the name of Rothwell, Figg, Ernst & Manbeck
- ☒ Charge any Additional Fee Required Under 37 CFR 1.16 and 1.17
- ☒ Applicant claims small entity status.
2. ☐ Payment Enclosed:  
☐ Check  
☐ Credit Card

**FEE CALCULATION**
**1. FILING FEE**

Fee Code	Fee \$	Fee Description	Fee Paid
2001	385	Utility filing fee	[385.00]
2002	170	Design Filing Fee	[ ]
2003	265	Plant Filing Fee	[ ]
2004	385	Reissue Filing Fee	[ ]
2005	80	Provisional Filing Fee	[ ]

**SUBTOTAL \$ 385.00**

**2. CLAIMS**

Total Claims	Extra Claims	Fee	Fee Paid
[ ] - 20** = [ ] x		\$ 9 = [ ]	
Independent Claims [ ] - 3** = [ ] x		43 = [ ]	
Multiple Dependent Claims +		145 = [ ]	

\*\*or number previously paid, if greater;

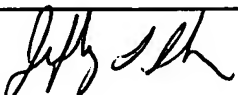
**SUBTOTAL \$**

**FEE CALCULATION (continued)**
**3. ADDITIONAL FEES**

Fee Code	Fee Paid	Fee Description	Fee Paid
2051	65	Surcharge - late filing fee or oath	[ ]
2052	25	Surcharge - late provisional filing fee or cover sheet	[ ]
1053	130	Non-English specification	[ ]
1812	2,520	For filing a request for reexamination	[ ]
1804	920	Requesting publication of SIR prior to Examiner action	[ ]
1805	1,840*	Requesting publication of SIR after Examiner action	[ ]
2251	55	Extension for reply within first month	[ ]
2252	210	Extension for reply within second month	[ ]
2253	475	Extension for reply within third month	[ ]
2254	740	Extension for reply within fourth month	[ ]
2255	1,005	Extension for reply within fifth month	[ ]
2401	165	Notice of Appeal	[ ]
2402	165	Filing a brief in support of an appeal	[ ]
2403	145	Request for Oral Hearing	[ ]
1451	1,510	Petition to institute a public use proceeding	[ ]
2452	55	Petition to revive -unavoidable	[ ]
2453	475	Petition to revive - unintentional	[ ]
2501	665	Utility issue fee (or reissue)	[ ]
2502	240	Design issue fee	[ ]
2503	320	Plant issue fee	[ ]
1460	130	Petitions to the Commissioner	[ ]
1807	50	Processing fee under 37 CFR 1.17(q)	[ ]
1806	180	Submission of Information Disclosure Statement	[ ]
8021	40	Recording each patent assignment per property (times number of properties)	[ ]
2809	385	Filing a submission after final rejection (37 CFR .129(a))	[ ]
2810	385	For each additional invention to be examined (37 CFR 1.129(b))	[ ]
2801	385	Request for Continued Examination (RCE)	[ ]
1802	900	Request for expedited examination of a design application	[ ]
1504	300	Publication fee for early, voluntary, or normal publication	[ ]
1505	300	Publication fee for republication	[ ]
1455	200	Filing an application for patent term adjustment	[ ]
1456	400	Request for reinstatement of term reduced	[ ]
Other fee (specify)			[ ]

\* Reduced by Basic Filing Fee Paid

**SUBTOTAL \$**

SUBMITTED BY		Complete (if applicable)			
NAME AND REG. NUMBER	Jeffrey L. Ihnen, Reg. No. 28,957				
SIGNATURE		DATE	30 OCTOBER 2003	DEPOSIT ACCT USER ID	02-2135